

**2023-24 BMITE Sequence of Courses**  
**Oklahoma CareerTech Statewide Instructional Framework**

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## BUSINESS MANAGEMENT & ADMINISTRATION CLUSTER

### PATHWAY: ADMINISTRATIVE SUPPORT

		1	2	3	4	5	6	7	8		Additional Course Options:
<b>State Program Area:</b> Administrative Support (480 hours)	<b>Administrative Assistant</b> OCAS Code: 9202 SOC 43-6014; CIP 52.0401 (480 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Office Administration & Management (120 hours)						Accounting I Advanced Database Concepts Using Access Bilingual Interpersonal Communications I Career Major Capstone Computerized Accounting Customer Assistance Human Resources Concepts Math of Finance Payroll Accounting
<b>State Program Area:</b> Administrative Support - Advanced (900 hours)	<b>Executive Administrative Assistant</b> OCAS Codes: 9202 & 9226 SOC 43-6011; CIP 52.0402 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Office Administration & Management (120 hours)	Advanced Spreadsheet Applications (120 hours)	Customer Assistance (120 hours)	Accounting I (120 hours)	Digital Marketing (120 hours)		Advanced Database Concepts Using Access Advanced Spreadsheet Applications Bilingual Interpersonal Communications I Career Major Capstone Digital Editing & Production Photography
	<b>Office Information Specialist</b> OCAS Codes: 9202 & 9226 SOC 43-6011 or 43-6014 CIP 52.0402 or 52.0401 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Office Administration & Management (120 hours)	Desktop Publishing & Graphic Design (120 hours)	Multimedia & Image Management Techniques (120 hours)	Fundamentals of Web Design (120 hours)	Digital Marketing (120 hours)		
		1	2	3	4	5	6				Additional Course Options:
<b>State Program Area:</b> Administrative Support - Legal (480 hours)	<b>Legal Receptionist</b> OCAS Code: 9210 SOC 43-6012; CIP 22.0301 (480 hours)	Fundamentals of Technology (120 hours)	Foundations for the Legal Office (180 hours)	Legal Office Procedures (180 hours)							Bilingual Interpersonal Communications Career Major Capstone Math of Finance Microsoft Office Specialist - Outlook/Word Study Microsoft Office Specialist - Access Prep Microsoft Office Specialist - Excel/PPT Prep
<b>State Program Area:</b> Administrative Support - Legal Advanced (900 hours)	<b>Legal Office Assistant</b> OCAS Codes: 9210 & 9217 SOC 43-6012; CIP 22.0301 (900 hours)	Fundamentals of Technology (120 hours)	Foundations for the Legal Office (180 hours)	Legal Office Procedures (180 hours)	Advanced Computer Applications for the Law Office (180 hours)	Advanced Legal Communications (180 hours)	Legal Specialties (180 hours)				
		1	2	3	4						Additional Course Options:
<b>State Program Area:</b> Administrative Support - Medical (480 hours)	<b>Patient Service Representative</b> OCAS Code: 9213 SOC 43-6013; CIP 51.0710 (480 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Foundations of Medical Office (120 hours)	Medical Terminology (120 hours)						Bilingual Interpersonal Communications I Career Major Capstone Medical Terminology for Health Records Clerk Patient Billing/Medical Insurance
		1	2	3	4	5	6	7	8		Additional Course Options:
<b>State Program Area:</b> Court Reporter (1,200 hours)	<b>Court Reporter</b> OCAS Codes: 9204 & 9223 SOC 27-3092; CIP 22.0303 (1,200 hours)	Fundamentals of Technology (120 hours)	Court Reporting Theory (120 hours)	<b>Simultaneously with Court Reporting Theory</b> Court Reporting Lab (60 hours)	Beginning Speed Building (120 hours)	Intermediate Speed Building (120 hours)	Advanced Speed Building (120 hours)	Realtime Applications (120 hours)	Legal/Medical Terminology (120 hours)		Bilingual Interpersonal Communications I Career Major Capstone
		1	2	3	4	5	6				Additional Course Options:
<b>State Program Area:</b> Customer Service (480 hours)	<b>Customer Service Representative</b> OCAS Code: 9205 SOC 43-4051; CIP 52.0411 (480 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Customer Assistance (120 hours)						Advanced Database Concepts Using Access Bilingual Interpersonal Communications I Career Major Capstone Math of Finance Office Administration and Management
<b>State Program Area:</b> Customer Service Advanced (900 hours)	<b>Bilingual Customer Service Representative</b> OCAS Codes: 9205 & 9234 SOC 43-4051; CIP 52.0411 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Customer Assistance (120 hours)	Office Administration & Management (120 hours)	Bilingual Interpersonal Communications I (180 hours)				

### PATHWAY: HUMAN RESOURCES MANAGEMENT

		1	2	3	4	5	6	7	8		Additional Course Options:
<b>State Program Area:</b> Human Resources Management (900 hours)	<b>Human Resources Assistant</b> OCAS Codes: 9208 & 9209 SOC 13-1071; CIP 52.1001 or 52.1099 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Office Administration & Management (120 hours)	Human Resources Concepts (120 hours)	Human Resources Information Systems (120 hours)	Employee & Labor Relations (120 hours)	Benefits & Compensation Management (120 hours)	Advanced Spreadsheet Applications (120 hours)		Bilingual Interpersonal Communications I Career Major Capstone Digital Marketing Microsoft Office Specialist - Outlook/Word Study Microsoft Office Specialist - Access Prep Microsoft Office Specialist - Excel/PPT Prep

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PATHWAY: GENERAL MANAGEMENT											
		1	2	3	4	5	6	7	8		Additional Course Options:
<b>State Program Area:</b> Entrepreneur - BA (900 hours)	<b>Entrepreneur</b> OCAS Codes: 9206 & 9207 SOC 11-1021; CIP 52.0701 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Accounting I (120 hours)	Introduction to Entrepreneurship (120 hours)	Entrepreneurship: Business Development (120 hours)	Entrepreneurship: Business Management (120 hours)	Digital Marketing (120 hours)	Business Communications (120 hours)		Advanced Spreadsheet Applications Career Major Capstone Computerized Accounting Personal Finance
		1	2	3	4	5	6	7	8		Additional Course Options:
<b>State Program Area:</b> Hospitality Management (720 hours)	<b>Meeting, Convention, &amp; Event Manager</b> OCAS Codes: 9235 & 9236 SOC 13-1121; CIP 52.0907 (720 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Introduction to Hospitality & Tourism (60 hours)	Business Management for Travel & Tourism (60 hours)	Event & Project Planning Management (120 hours)	Resort & Tourism Management (60 hours)	Convention Planning (60 hours)	Digital Marketing (120 hours)		Bilingual Interpersonal Communications I Career Major Capstone Microsoft Office Specialist - Outlook/Word Study Microsoft Office Specialist - Access Prep Microsoft Office Specialist - Excel/PPT Prep
	<b>Lodging Manager</b> OCAS Codes: 9235 & 9236 SOC 11-9081; CIP 52.0901 (720 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Introduction to Hospitality & Tourism (60 hours)	Lodging Management I (120 hours)	Lodging Management II (120 hours)	Office Administration & Management (120 hours)	Human Resources Concepts (120 hours)			Advanced Spreadsheet Applications Career Major Capstone Digital Marketing Microsoft Office Specialist - Outlook/Word Study Microsoft Office Specialist - Access Prep Microsoft Office Specialist - Excel/PPT Prep
PATHWAY: BUSINESS INFORMATION MANAGEMENT											
		1	2	3	4	5	6	7			Additional Course Options:
<b>State Program Area:</b> Business Information Management (720 hours)	<b>Project Manager</b> OCAS Codes: 9232 & 9233 SOC 11-9199; CIP 52.0211 (720 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Fundamentals of Project Management (120 hours)	Business Communications (120 hours)	Advanced Project Management (120 hours)	Collaboration in Problem Based Learning (120 hours)	Principles of Visual Communication (120 hours)			Accounting I Bilingual Interpersonal Communications I Career Major Capstone Digital Marketing
		1	2	3	4	5	6	7			Additional Course Options:
<b>State Program Area:</b> Business Information Management - Medical (720 hours)	<b>Healthcare IT Technician</b> OCAS Codes 9230 & 9231 SOC 29-2072 or 29-9021; CIP 51.0707 (720 hours)	<i>Students must have A+ Certification prior to enrolling in this program</i>	Healthcare IT Terminology (180 hours)	Healthcare IT Electronic Health Records I (120 hours)	Healthcare IT Electronic Health Records II (120 hours)	Healthcare IT Electronic Health Records III (120 hours)	Healthcare IT Electronic Health Records IV (120 hours)				Administrative Technologies II Basic Anatomy/Physiology Bilingual Interpersonal Communications I Career Major Capstone Medical Terminology Medical Terminology for Health Records Clerk
<b>State Program Area:</b> Business Information Management - Medical Advanced (900 hours)	<b>Patient Account Specialist</b> OCAS Codes 9230 & 9231 SOC 43-6013; CIP 51.0714 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Foundations of Medical Office (120 hours)	Medical Terminology (120 hours)	Electronic Health Records (120 hours)	Patient Billing/Medical Insurance (180 hours)				
	<b>Medical Coding Specialist</b> OCAS Codes 9230 & 9231 SOC 29-2072; CIP 51.0713 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Foundations of Medical Office (120 hours)	Medical Terminology (120 hours)	Diagnosis Coding (90 hours)	Procedural Coding (240 hours)	Patient Billing/Medical Insurance (180 hours)			Bilingual Interpersonal Communications I Career Major Capstone Medical Terminology for Health Records Clerk

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## FINANCE CLUSTER

### PATHWAY: ACCOUNTING

		1	2	3	4	5	6	7	8	Additional Course Options
<b>State Program Area:</b> Accounting (480 hours)	<b>Accounting Clerk</b> OCAS Code: 9258 SOC 43-3031; CIP 52.0302 (480 hours)	Fundamentals of Technology (120 hours)	Accounting I (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Computerized Accounting (120 hours)					Administrative Technologies II Accounting II Career Major Capstone Math of Finance Office Administration and Management Payroll Accounting
<b>State Program Area:</b> Accounting Advanced (900 hours)	<b>Accounting Associate</b> OCAS Codes: 9258 & 9266 SOC 43-3031 & 43-3051; CIP 52.0302 (900 hours)	Fundamentals of Technology (120 hours)	Accounting I (120 hours)	Computerized Accounting (120 hours)	Payroll Accounting (120 hours)	Accounting II (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Financial Accounting (120 hours)	Advanced Database Concepts Using Access Business and Personal Finance Career Major Capstone Math of Finance Office Administration and Management Personal Finance

### PATHWAY: BUSINESS FINANCE

		1	2	3	4	5	6	7	8	Additional Course Options:
<b>State Program Area:</b> Financial Services (900 hours)	<b>Financial Planning Assistant</b> OCAS Codes: 9254 & 9268 SOC 13-2052; CIP 52.0804 (900 hours)	Fundamentals of Technology (120 hours)	Business & Personal Finance (120 hours)	Financial Accounting (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Financial Customer Relations (120 hours)	Accounting I (120 hours)	Office Administration & Management (120 hours)	Advanced Spreadsheet Applications Accounting II Career Major Capstone Math of Finance Personal Finance

### PATHWAY: BANKING SERVICES

		1	2	3	4	5	6	7		Additional Course Options:
<b>State Program Area:</b> Banking Services (720 hours)	<b>Banking Services Representative</b> OCAS Codes: 9255 & 9267 SOC 43-4041 & 43-3071; CIP 52.0803 (720 hours)	Fundamentals of Technology (120 hours)	Banking & Financial Services (120 hours)	Financial Customer Relations (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Administrative Technologies II (120 hours)	Financial Accounting (120 hours)	Customer Service (120 hours)		Accounting I Accounting II Career Major Capstone Math of Finance Personal Finance

### PATHWAY: INSURANCE

		1	2	3	4	5	6	7		Additional Course Options:
<b>State Program Area:</b> Insurance Services (720 hours)	<b>Insurance Customer Service Representative</b> OCAS Codes: 9259 & 9260 SOC 41-3021; CIP 52.1701 (720 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Life Insurance Concepts (60 hours)	Accident and Health Insurance (60 hours)	Property & Casualty Personal Lines (120 hours)	Property & Casualty Commercial Lines (120 hours)	Title Insurance (120 hours)		Advanced Spreadsheet Applications Career Major Capstone Customer Service Math of Finance

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## MARKETING CLUSTER

### PATHWAY: MARKETING MANAGEMENT

		1	2	3	4	5	6	7	8	9		Additional Course Options:
<b>State Program Area:</b> Entrepreneurship MK (480 hours)	<b>Marketing Entrepreneur</b> OCAS Code: 9795 SOC 11-1021; CIP 52.0701 (480 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Entrepreneurship Awareness (120 hours)	Entrepreneurship (120 hours)							Advertising Strategies Business and Marketing Communications Buying and Merchandising Career Major Capstone Ethical Leadership
<b>State Program Area:</b> Entrepreneurship MK - Advanced (900 hours)	<b>Marketing Entrepreneur Specialist</b> OCAS Codes: 9795 & 9802 SOC 11-1021; CIP 52.0701 (900 hours)	Marketing Fundamentals (120 hours)	Entrepreneurship (120 hours)	Digital Marketing (120 hours)	Desktop Publishing and Graphic Design (120 hours)	Fundamentals of Web Design (120 hours)	Fundamentals of Administrative Technologies (120 hours)	Computerized Accounting (120 hours)	Customer Relations (30 hours)	Ethical Leadership (60 hours)		Career Major Capstone International Business and Marketing Office Administration and Management
	<b>Small Business Entrepreneur</b> OCAS Codes: 9795 & 9802 SOC 11-1021; CIP 52.0701 (900 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Entrepreneurship Awareness (120 hours)	Entrepreneurship (120 hours)	Advanced Entrepreneurship (120 hours)	Accounting 1 (120 hours)	Business Management and Supervision (120 hours)	Business and Marketing Communications (60 hours)	Buying and Merchandising (60 hours)		Advertising Strategies Career Major Capstone International Business and Marketing
		1	2	3	4	5	6	7	8	9		Additional Course Options:
<b>State Program Area:</b> Management (720 hours)	<b>Retail Manager</b> OCAS Codes: 9789 & 9809 SOC 11-1021; CIP 52.0212 (720 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Business Management and Supervision (120 hours)	Buying and Merchandising (120 hours)	Product & Service Sales (60 hours)	Business and Marketing Communications (60 hours)	Customer Service (60 hours)	Ethical Leadership (60 hours)			Career Major Capstone Sales and Sales Promotion
<b>State Program Area:</b> Management Advanced (900 hours)	<b>Customer Experience Manager</b> OCAS Codes: 9789 & 9809 SOC 13-1161; CIP 52.1401 (900 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Interactive Marketing Techniques (120 hours)	Public Relations Marketing (120 hours)	Business Management & Supervision (120 hours)	Awareness of GPS/GIS (120 hours)	E-Commerce Marketing (120 hours)	Ethical Leadership (60 hours)	Customer Service (60 hours)		Career Major Capstone Marketing Research

### PATHWAY: PROFESSIONAL SALES

		1	2	3	4	5	6					Additional Course Options:
<b>State Program Area:</b> Professional Sales (480 hours)	<b>Sales Associate</b> OCAS Code: 9787 SOC 41-4012; CIP 52.1801 (480 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Customer Service (60 hours)	Sales and Sales Promotion (60 hours)	Product & Service Sales (60 hours)	Ethical Leadership (60 hours)					Career Major Capstone

### PATHWAY: MARKETING COMMUNICATIONS

		1	2	3	4	5	6	7	8	9	10	Additional Course Options:
<b>State Program Area:</b> Marketing Communications (480 hours)	<b>Marketing Assistant</b> OCAS Code: 9783 SOC 27-3099; CIP 09.0702 (480 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Sales and Sales Promotion (60 hours)	Customer Service (60 hours)	Business and Marketing Communications (60 hours)	Product & Service Sales (60 hours)					Advertising Strategies Career Major Capstone Fundamentals of Web Design
	<b>E-Marketing Associate</b> OCAS Code: 9783 SOC 27-3099; CIP 09.0702 (480 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	E-Commerce Marketing (120 hours)	International Business and Marketing (120 hours)							Career Major Capstone Fundamentals of Web Design
<b>State Program Area:</b> Marketing Communications Advanced (720 hours)	<b>Digital Marketing Specialist</b> OCAS Codes: 9783 & 9784 SOC 27-3099; CIP 09.0702 (720 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Advertising Strategies (120 hours)	Marketing Research (120 hours)	International Business and Marketing (120 hours)	Business and Marketing Communications (60 hours)	Customer Service (60 hours)				Career Major Capstone Office Administration and Management
	<b>Marketing / PR Specialist</b> OCAS Codes: 9783 & 9784 SOC 27-3031; CIP 09.0902 (720 hours)	Marketing Fundamentals (120 hours)	Digital Marketing (120 hours)	Marketing Research (120 hours)	Business Management and Supervision (120 hours)	Public Relations Marketing (120 hours)	International Business and Marketing (120 hours)	Business and Marketing Communications (60 hours)	Customer Service (60 hours)	Employment Essentials (60 hours)	Product & Service Sales (60 hours)	Career Major Capstone Desktop Publishing and Graphic Design

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## INFORMATION TECHNOLOGY CLUSTER

### PATHWAY: NETWORK SYSTEMS

		1	2	3	4	5	6	7	8			Additional Course Options:
<b>State Program Area:</b> Network Support (900 hours)	<b>Home Technology Integrator</b> OCAS Codes: 9542 & 9543 SOC 49-2097; CIP 47.0103 (900 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Computer Repair & Troubleshooting II (120 hours)	Routing & Switching I (120 hours)	Audio-Visual Systems (120 hours)	Auxiliary Home Technology Systems (120 hours)	Enterprise Security Management (120 hours)	Residential & Commercial Wiring Systems (60 hours)			Career Major Capstone Cybersecurity Basics Fundamentals of Linux/Unix
<b>State Program Area:</b> Cybersecurity (600 hours)	<b>Cybersecurity Specialist</b> OCAS Code: 9530 & 9564 SOC 15-1212; CIP 11.1003 (600 hours)	Fundamentals of Technology (120 hours)	Security Fundamentals (120 hours)	Network Security Awareness (120 hours)	Enterprise Security Management (90 hours)	Secure Electronic Commerce (60 hours)	Principles of Information Assurance (60 hours)					Career Major Capstone Cyber Forensics IT Essentials Regulatory Compliance & Auditing Security Fundamentals
<b>State Program Area:</b> Cybersecurity Advanced (900 hours)	<b>Cybersecurity Network Specialist</b> OCAS Codes: 9530 & 9564 SOC 15-1212; CIP 11.1003 (900 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Computer Repair & Troubleshooting II (120 hours)	Routing & Switching I (120 hours)	Routing & Switching II (120 hours)	Principles of Information Assurance (60 hours)	Network Security (60 hours)	Enterprise Security Management (90 hours)	Secure Electronic Commerce (60 hours)	Cyber Forensics (60 hours)	Career Major Capstone CCNA Security Fundamentals of Linux/Unix IT Essentials Regulatory Compliance & Auditing Security Fundamentals
<b>State Program Area:</b> Networking (480 hours)	<b>Network Technician Assistant</b> OCAS Codes 9547 SOC 15-1231; CIP 11.0901 (480 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Computer Repair & Troubleshooting II (120 hours)	Routing & Switching I (120 hours)							Career Major Capstone Cybersecurity Basics Fundamentals of Linux/Unix Network/Client Operating Systems Security Fundamentals Server Operating Systems Windows Operating Systems
<b>State Program Area:</b> Networking Advanced (900 hours)	<b>Network Security Professional</b> OCAS Codes: 9547 & 9548 SOC 15-1212; CIP 11.1003 (900 hours)	Fundamentals of Technology (120 hours)	Routing & Switching I (120 hours)	Network/Client Operating Systems (120 hours)	Server Operating Systems (120 hours)	Network Management (120 hours)	Security Fundamentals (120 hours)	Network Security (60 hours)	Principles of Information Assurance (60 hours)			Career Major Capstone IT Essentials Windows Operating Systems Fundamentals Windows Server Administration Fundamentals
	<b>Network Systems &amp; Data Communications Analyst</b> OCAS Codes: 9547 & 9548 SOC 15-1212; CIP 11.0901 (900 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Network/Client Operating Systems (120 hours)	Server Operating Systems (120 hours)	Web Authoring Languages (120 hours)	Database Design & Programming (120 hours)	Security Fundamentals (120 hours)	Principles of Information Assurance (60 hours)			Career Major Capstone IT Essentials Windows Operating Systems Fundamentals Windows Server Administration Fundamentals
	<b>Network Systems Engineer</b> OCAS Codes: 9547 & 9548 SOC 15-1244; CIP 11.1003 (900 hours)	Fundamentals of Technology (120 hours)	Routing & Switching I (120 hours)	Network/Client Operating Systems (120 hours)	Windows Server Operating Systems Fundamentals (120 hours)	Network Management (120 hours)	Active Directory Infrastructure (120 hours)	Server Infrastructure Design (120 hours)	Security Fundamentals (120 hours)			Career Major Capstone Windows Server Administration Fundamentals
	<b>Network Server Technician</b> OCAS Codes: 9547 & 9548 SOC 15-1244; CIP 11.1001 (900 hours)	Fundamentals of Technology (120 hours)	Routing & Switching I (120 hours)	Server Operating Systems (120 hours)	Server Infrastructure Design (90 hours)	Routing & Switching II (120 hours)	Active Directory Infrastructure (120 hours)	Network Security Awareness (120 hours)	Security Fundamentals (120 hours)			Career Major Capstone Windows Operating Systems Fundamentals Windows Server Administration Fundamentals
	<b>Enterprise Network Professional</b> OCAS Codes: 9547 & 9548 SOC 15-1244; CIP 11.1003 (900 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Computer Repair & Troubleshooting II (120 hours)	Routing & Switching I (120 hours)	Routing & Switching II (120 hours)	Advanced Routing & Remote Access Networks (120 hours)	Cyber Ops (120 hours)	Server Operating Systems (120 hours)	Security Fundamentals (120 hours)		Career Major Capstone Cybersecurity Basics Windows Operating Systems Fundamentals Windows Server Administration Fundamentals
	<b>Network Server Administrator</b> OCAS Codes: 9547 & 9548 SOC 15-1244; CIP 11.1001 (900 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Computer Repair & Troubleshooting II (120 hours)	Routing & Switching I (120 hours)	Network/Client Operating Systems (120 hours)	Installing & Maintaining Desktop Applications (120 hours)	Network Management (120 hours)	Active Directory Infrastructure (120 hours)	Server Operating Systems (120 hours)		Career Major Capstone Security Fundamentals Windows Operating Systems Fundamentals Windows Server Administration Fundamentals

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#### PATHWAY: INFORMATION SUPPORT & SERVICES

		1	2	3	4	5	6					Additional Course Options:
<b>State Program Area:</b> ArcGIS Support (720 hours)	<b>ArcGIS Desktop Support Associate</b> OCAS Codes: 9559 & 9560 SOC 15-1299; CIP 11.0101 (720 hours)	Fundamentals of Technology (120 hours)	Awareness of GPS/GIS (120 hours)	Essential Skills for ArcGIS (120 hours)	Managing & Analyzing Data Using ArcGIS (120 hours)	Editing, Visualizing & Sharing Data in ArcGIS Software (120 hours)	IT Essentials (120 hours)					Career Major Capstone
		1	2	3	4	5	6	7	8			Additional Course Options:
<b>State Program Area:</b> Computer/Network Support (480 hours)	<b>PC Support Technician</b> OCAS Code: 9542 SOC 49-2011; CIP 47.0104 (480 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Computer Repair & Troubleshooting II (120 hours)	IT Essentials (120 hours)							Career Major Capstone
<b>State Program Area:</b> Computer/Network Support Advanced (900 hours)	<b>Network PC Support Technician</b> OCAS Codes: 9542 & 9543 SOC 15-1231; CIP 11.0901 (900 hours)	Fundamentals of Technology (120 hours)	Computer Repair & Troubleshooting I (120 hours)	Computer Repair & Troubleshooting II (120 hours)	Computer Repair & Troubleshooting III (120 hours)	Routing & Switching I (120 hours)	Routing & Switching II (120 hours)	Networking & Routing Fundamentals (120 hours)	Cybersecurity Basics (120 hours)			
		1	2	3	4	5	6	7	8	9		Additional Course Options:
<b>State Program Area:</b> Database Administration/Development (480 hours)	<b>Database Associate</b> OCAS Code: 9531 SOC 15-1242; CIP 11.0802 (480 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Database Development (120 hours)	Database Design & Programming (120 hours)	Programming Fundamentals (120 hours)							Career Major Capstone Database Administration IT Essentials Visual Basic .NET Programming
<b>State Program Area:</b> Database Administration/Development Advanced (900 hours)	<b>Database Developer</b> OCAS Codes: 9531 & 9532 SOC 15-1242; CIP 11.0802 (900 hours)	Fundamentals of Technology (120 hours)	Programming Fundamentals (120 hours)	Fundamentals of Database Development (120 hours)	Modeling Languages (120 hours)	Database Design & Programming (120 hours)	SQL & PL/SQL Database Applications Development (120 hours)	Database Administration (120 hours)	Database Administration II (120 hours)			Career Major Capstone
	<b>Database Administrator</b> OCAS Codes: 9531 & 9532 SOC 15-1242; CIP 11.0802 (900 hours)	Fundamentals of Technology (120 hours)	Database Concepts Using Access (120 hours)	Visual Basic .NET Programming (120 hours)	Fundamentals of Database Development (120 hours)	Database Design & Programming (120 hours)	SQL & PL/SQL Database Applications Development (120 hours)	Security Fundamentals (120 hours)	Database Administration (120 hours)	Database Administration II (120 hours)		Career Major Capstone Fundamentals of Linux/Unix

#### PATHWAY: WEB & DIGITAL COMMUNICATIONS

		1	2	3	4	5	6	7	8	9		Additional Course Options:
<b>State Program Area:</b> Animation Technology (480 hours)	<b>Special Effects Technician</b> OCAS Code: 9526 SOC 27-1014; CIP 10.0304 (480 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Principles of Animation (120 hours)	3D Animation (120 hours)							Career Major Capstone Design Tools & Electronic Marketing Strategies Fundamentals of 3D Motion Graphics 3D Modeling & Rigging Techniques
<b>State Program Area:</b> Animation Technology Advanced (900 hours)	<b>Motion Graphics Artist</b> OCAS Codes: 9526 & 9527 SOC 27-1014; CIP 10.0304 (900 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Principles of Animation (120 hours)	2D Animation Techniques (120 hours)	3D Animation (120 hours)	Fundamentals of 3D Motion Graphics (120 hours)	3D Modeling & Rigging (120 hours)	Advanced Effects for Motion Graphics (120 hours)	Design Tools & Electronic Marketing Strategies (120 hours)		Career Major Capstone
		1	2	3	4	5	6	7	8			Additional Course Options:
<b>State Program Area:</b> Audio & Video Technology - IT (480 hours)	<b>Video Production Assistant</b> OCAS Code: 9554 SOC 27-4011; CIP 10.0201 (480 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Digital Media Production (120 hours)	Non-Linear Digital Editing (120 hours)							Audio Production Broadcast Production Career Major Capstone Interactive Marketing Techniques Remote/Field Production Studio Production
<b>State Program Area:</b> Audio & Video Technology - IT Advanced (840 hours)	<b>Audio Technician</b> OCAS Codes: 9554 & 9555 SOC 27-4011; CIP 10.0203 (840 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Interactive Marketing Techniques (120 hours)	Audio Production (120 hours)	Broadcast Production (120 hours)	Audio Production for Radio & Video (120 hours)	Audio Tools & Techniques (120 hours)				Career Major Capstone
	<b>Video Technician</b> OCAS Codes: 9554 & 9555 SOC 27-4032; CIP 10.0299 (840 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Digital Media Production (120 hours)	Non-Linear Digital Editing (120 hours)	Advanced Digital Video Tools & Techniques (120 hours)	Broadcast Production (120 hours)	Audio Production (120 hours)	Non-Linear Digital Production (120 hours)			Career Major Capstone Remote/Field Production Studio Production

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**PATHWAY: WEB & DIGITAL COMMUNICATIONS (continued)**

		1	2	3	4	5	6	7				Additional Course Options:
<b>State Program Area:</b> Digital Design & Publishing (480 hours)	<b>Desktop Publisher / Graphic Designer</b> OCAS Code: 9537 SOC 27-1024; CIP 50.0409 (480 hours)	Fundamentals of Technology (120 hours)	Desktop Publishing & Graphic Design (120 hours)	Multimedia & Image Management Techniques (120 hours)	Digital Editing & Production Photography (120 hours)							Career Major Capstone Interactive Marketing Techniques
<b>State Program Area:</b> Digital Design & Publishing Advanced (840 hours)	<b>Graphic Design Specialist</b> OCAS Codes: 9537 & 9538 SOC 27-1024; CIP 50.0409 (840 hours)	Fundamentals of Technology (120 hours)	Desktop Publishing & Graphic Design (120 hours)	Multimedia & Image Management Techniques (120 hours)	Digital Editing & Production Photography (120 hours)	Design Tools & Electronic Marketing Strategies (120 hours)	Advanced Design Techniques (120 hours)	Principles of Animation (120 hours)				Career Major Capstone Fundamentals of Web Design Interactive Marketing Techniques Layout Design Techniques
		1	2	3	4	5	6	7	8			Additional Course Options:
<b>State Program Area:</b> Game Design/ Development (480 hours)	<b>Web Game Developer</b> OCAS Code: 9552 SOC 15-1254; CIP 50.0411 (480 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Web Design (120 hours)	Gaming Development Fundamentals (120 hours)	Web Authoring Languages (120 hours)							Career Major Capstone Layout Design Techniques Web Scripting Foundations
<b>State Program Area:</b> Game Design/ Development Advanced (900 hours)	<b>Video Game Designer</b> OCAS Codes: 9552 & 9553 SOC 27-1014; CIP 50.0411 (900 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Design Tools & Electronic Marketing Techniques (120 hours)	Fundamentals of Video Game Design (120 hours)	2D Animation Techniques (120 hours)	Fundamentals of 3D Motion Graphics (120 hours)	3D Modeling & Rigging (120 hours)	Principles of Animation (120 hours)			Advanced Design Techniques Career Major Capstone Fundamentals of Web Design Layout Design Techniques
		1	2	3	4	5	6	7	8			Additional Course Options:
<b>State Program Area:</b> Multimedia Technology (480 hours)	<b>Interactive Media Specialist</b> OCAS Code: 9540 SOC 27-1014; CIP 10.0304 (480 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Fundamentals of Web Design (120 hours)	Digital Media Production (120 hours)							Career Major Capstone Web Authoring Languages
<b>State Program Area:</b> Multimedia Technology Advanced (900 hours)	<b>Multimedia Assistant</b> OCAS Codes: 9540 & 9541 SOC 27-1014; CIP 11.0801 (900 hours)	Fundamentals of Technology (120 hours)	Multimedia & Image Management Techniques (120 hours)	Fundamentals of Web Design (120 hours)	Design Tool & Electronic Marketing Strategies (120 hours)	Digital Media Production (120 hours)	Digital Editing & Production Photography (120 hours)	Broadcast Production (120 hours)	Interactive Marketing Techniques (120 hours)			Career Major Capstone Layout Design Techniques Web Authoring Languages
	<b>Multimedia Specialist</b> OCAS Codes: 9540 & 9541 SOC 27-1014; CIP 10.0304 (900 hours)	Fundamentals of Technology (120 hours)	Desktop Publishing & Graphic Design (120 hours)	Multimedia & Image Management Techniques (120 hours)	Non-Linear Digital Editing (120 hours)	Digital Editing & Production Photography (120 hours)	Advanced Digital Video Tools & Techniques (120 hours)	Non-Linear Digital Production (120 hours)	Interactive Marketing Techniques (120 hours)			Career Major Capstone
		1	2	3	4	5	6	7	8			Additional Course Options:
<b>State Program Area:</b> Web Design & Development - IT (480 hours)	<b>E-Business Specialist</b> OCAS Code: 9557 SOC 27-1014; CIP 11.0801 (480 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Web Design (120 hours)	Design Tools & Electronic Marketing Strategies (120 hours)	Web Scripting Foundations (120 hours)							Advanced Design Tools Career Major Capstone Database Design & Programming Web Development Fundamentals
	<b>Web Designer</b> OCAS Code: 9557 SOC 15-1255; CIP 11.0801 (480 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Web Design (120 hours)	Multimedia & Image Management Techniques (120 hours)	Design Tools & Electronic Marketing Strategies (120 hours)							Career Major Capstone Digital Media Production Layout Design Techniques Web Development Fundamentals
<b>State Program Area:</b> Web Design & Development - IT Advanced (900 hours)	<b>Web Applications Developer</b> OCAS Codes: 9557 & 9558 SOC 15-1254; CIP 11.1004 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Web Design (120 hours)	Web Scripting Foundations (120 hours)	C# Programming (120 hours)	SQL & PL/SQL Database Applications Development (120 hours)	Network/Client Operating Systems (120 hours)	Web Authoring Languages (120 hours)	Web Development Fundamentals (120 hours)			Career Major Capstone
	<b>Front End Developer</b> OCAS Codes: 9557 & 9558 SOC 15-1254; CIP 11.1004 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Web Design (120 hours)	Web Authoring Tools (120 hours)	Multimedia & Image Management Techniques (120 hours)	Web Scripting Foundations (120 hours)	Layout Design Techniques (120 hours)	Interactive Marketing Techniques (120 hours)	Web Authoring Languages (120 hours)			Career Major Capstone Digital Editing & Production Photography Web Development Fundamentals
	<b>Back End Developer</b> OCAS Codes: 9557 & 9558 SOC 15-1254; CIP 11.0801 (900 hours)	Fundamentals of Technology (120 hours)	Fundamentals of Web Design (120 hours)	Web Scripting Foundations (120 hours)	Web Application Technologies (120 hours)	Interactive Marketing Techniques (120 hours)	Database Design & Programming (120 hours)	Web Development Fundamentals (120 hours)	Server-Side Scripting (120 hours)			Career Major Capstone Web Authoring Languages



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**PATHWAY: PROGRAMMING & SOFTWARE DEVELOPMENT**

		1	2	3	4	5	6	7	8			Additional Course Options:
<b>State Program Area:</b> Programming (480 hours)	<b>App Program Developer</b> OCAS Code: 9550 SOC 15-1251; CIP 11.0201 (480 hours)	Fundamentals of Technology (120 hours)	Java Programming (120 hours)	Beginning Android Development (120 hours)	Intermediate Android Development (120 hours)							Career Major Capstone Gaming Development Fundamentals Mobile Development Fundamentals Software Development Fundamentals
	<b>Programming Technician</b> OCAS Code: 9550 SOC 15-1251; CIP 11.0201 (480 hours)	Fundamentals of Technology (120 hours)	Programming Fundamentals or Basic (120 hours)	C# Programming or Java or C++ or Visual Basic (120 hours)	Advanced Programming (120 hours)							Career Major Capstone Gaming Development Fundamentals HTML5 Application Developer Fundamentals Mobile Development Fundamentals Software Development Fundamentals Systems Analysis, Design & Testing Web Development Fundamentals
<b>State Program Area:</b> Programming Advanced (900 hours)	<b>Enterprise Developer</b> OCAS Codes: 9550 & 9551 SOC 15-1254; CIP 11.0201 (900 hours)	Fundamentals of Technology (120 hours)	Basic Programming (120 hours)	Advanced Programming (120 hours)	Database Design & Programming (120 hours)	Scripting Language Fundamentals (120 hours)	Advanced Scripting Languages (120 hours)	C# Programming or Java or C++ or Visual Basic (120 hours)	Web Development Fundamentals (120 hours)			Advanced Scripting Language Career Major Capstone C++ Programming C# Programming Gaming Development Fundamentals Mobile Development Fundamentals Software Development Fundamentals Visual Basic .NET Programming Web Development Fundamentals
	<b>Game Programmer</b> OCAS Codes: 9550 & 9551 SOC 15-1251; CIP 11.0201 (900 hours)	Fundamentals of Technology (120 hours)	Advanced Programming (120 hours)	Systems Analysis, Design & Testing (120 hours)	Software Configuration Management (120 hours)	Cross Platform Game Programming (120 hours)	Fundamentals of Video Game Design (120 hours)	Gaming Development Fundamentals (120 hours)	Advanced Scripting Languages (120 hours)			
	<b>Computer Programmer</b> (Multiple Languages) OCAS Codes: 9550 & 9551 SOC 15-1251; CIP 11.0201 (900 hours)	Fundamentals of Technology (120 hours)	Basic Programming (120 hours)	JAVA Programming (120 hours)	Scripting Language Fundamentals (120 hours)	Advanced Programming (120 hours)	C++ Programming or C# Programming (120 hours)	Systems Analysis, Design & Testing (120 hours)	Advanced Scripting Languages (120 hours)			
		1	2	3	4	5	6					Additional Course Options:
<b>State Program Area:</b> Computer Science Prep (720 hours)	<b>Computer Science Engineering Prep</b> OCAS Codes: 9550 & 9551 SOC 15-1231; CIP 11.0701 (720 hours)	Fundamentals of Technology (120 hours)	Computer Science Discoveries (120 hours)	Computer Science Essentials (120 hours)	Computer Science Principles (120 hours)	Computer Science A (120 hours)	Computer Science Principles AP (120 hours)					Career Major Capstone Python Programming